SEP 13 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

**MEMORANDUM**

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**SUBJECT:** Isoxaflutole Monitoring Data from Missouri:
Update on Reservoirs through March, 2002 with Revised Concentrations

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**THRU:** Tom Bailey, Branch Chief
Environmental Risk Branch II / EFED (7507C) 9-5-02

**DATE:** September 5, 2002

This memorandum is a follow-up to previous reports on isoxaflutole residues in Missouri drinking water reservoirs through March 2002. The registrant has submitted (MRID# 456906-01) slightly revised numbers for some concentrations that were reported as less than the quantitation limit (LOQ) of 10 parts-per-trillion. The registrant did not give any reason for restating results that were previously reported as "< 10," however all of the restated results were above the Limit of Detection (LOD, 3 ppt) and below the LOQ of 10 ppt, so there is no disagreement with the previous results.

The conclusions and discussion in the previous memo (D283639, dated July 1, 2002) are unchanged. A table reflecting the revised concentrations appears below.

The following 18 reservoirs in Missouri have shown no detections of isoxaflutole or its metabolites over the indicated monitoring periods: Shelbina Reservoir (6/00-3/02), Schuyler PWSD #1 Lake (6/00-3/02), Spring Fork Lake (6/00-3/02), Higginsville Lake (6/00-3/02), Butler Lake (6/00-3/02), Wyaconda Reservoir (6/00-3/02), Edina Reservoir (6/00-3/02), Smithville Reservoir (9/00-3/02), Dearborn Lake (9/00-3/02), Cameron Lower #3 Reservoir (9/00-3/02), Grindstone Reservoir (9/00-3/02), Breckenridge Reservoir (9/00-3/02), Jamesport City Lake (9/00-3/02), Unionville New Reservoir (Lake Mahoney) (9/00-3/02), Lake Thunderhead (9/00-3/02), Green City Lake (9/00-3/02), Bucklin Reservoir (9/00-3/02), and Lewiston Lake (12/01-3/02).

## Isoxaflutole Residues in Fourteen Missouri Reservoirs (parts-per-trillion)

| Reservoir Name | Degrad -ate | 6/00 | 9/00 | 12/00 | 1/01 | 3/01 | 6/01 | 9/01 | 12/01 | 3/02 |
|---|---|---|---|---|---|---|---|---|---|---|
| Drexel City Lake | DKN | 49 | 110 | -- | 24 | 75 | 127 | 107 | 92 | 83 |
| | 203328 | 35 | 115 | – | 29 | 95 | 166 | 144 | 136 | 121 |
| Concordia Lake | DKN | -- | 23 | -- | 13 | 11 | < 10 | < 10 | 6 | 6 |
| | 203328 | -- | 20 | – | 13 | 13 | 11 | < 10 | 8 | 7 |
| Marceline Lake | DKN | – | 24 | – | 14 | ND | ND | ND | ND | ND |
| | 203328 | -- | 69 | -- | 53 | < 10 | < 10 | < 10 | ND | 3 |
| Vandalia Reservoir | DKN | 17 | < 10 | < 10 | -- | ND | ND | ND | ND | ND |
| | 203328 | 42 | 11 | 18 | -- | ND | ND | ND | ND | ND |
| Monroe City South Reservoir | DKN | 30 | 23 | 29 | -- | 15 | < 10 | < 10 | 4 | ND |
| | 203328 | 57 | 44 | 64 | -- | 34 | 23 | 16 | 10 | 9 |
| Monroe City Route J Reservoir | DKN | 43 | 16 | 36 | -- | < 10 | ND | ND | ND | ND |
| | 203328 | 75 | 33 | 76 | -- | 20 | < 10 | < 10 | ND | 3 |
| LaBelle Lake #1 | DKN | -- | 246 | 259 | -- | 183 | 101 | 101 | 97 | 90 |
| | 203328 | -- | 135 | 163 | -- | 121 | 75 | 75 | 74 | 65 |
| LaBelle Lake #2 | DKN | 30 | 24 | 27 | -- | 24 | <10 | < 10 | 5 | 6 |
| | 203328 | 15 | 15 | 17 | -- | 16 | < 10 | < 10 | ND | 5 |
| Baring Country Club Lake | DKN | 24 | ND | ND | -- | ND | ND | ND | ND | ND |
| | 203328 | 19 | ND | ND | -- | ND | ND | ND | ND | ND |
| Mark Twain Lake | DKN | ND | ND | ND | -- | ND | < 10 | < 10 | ND | ND |
| | 203328 | ND | ND | ND | -- | ND | ND | < 10 | ND | ND |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Harrison-ville Lake | DKN | ND | ND | -- | ND | ND | < 10 | < 10 | 3 | 4 |
| | 203328 | ND | ND | -- | ND | ND | 13 | 12 | 10 | 10 |
| Ridgeway Lake | DKN | ND | ND | ND | ND | ND | ND | 17 | 20 | 24 |
| | 203328 | ND | ND | ND | ND | ND | ND | 20 | 11 | 14 |
| Long Branch Lake | DKN | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 203328 | ND | ND | ND | ND | ND | ND | < 10 | ND | 4 |
| Sugar Creek Lake | DKN | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 203323 | ND | ND | ND | ND | ND | ND | ND | 3 | ND |

The limit of detection was 3 parts-per-trillion (ppt) and the limit of quantitation was 10 ppt.
ND = not detected (< 3 ppt).